MODIS DATA SYSTEM STUDY TEAM PRESENTATION

April 28, 1989

AGENDA

1. MODIS Team Members and Supporting Staff With Interests in Calibration
2. Grid Resolutions of Proposed Products (Not Standardized)
3. Sample NDVI Data from NOAA-9 AVHRR (Courtesy of Dan Tarpley, NOAA/NESDIS)
4. MODIS Team Member Science Data Product Summary

LIST OF MODIS TEAM MEMBERS AND SUPPORTING STAFF
INTERESTED IN CALIBRATION

1. Dr. Vincent Salomonson/GSFC Code 620

   Dr. Salomonson is interested in calibration of all the MODIS-N and -T channels using in-flight sources, Earth calibration targets, the moon, pre-flight data, and any other means. Support staff for this purpose are:
   a. Bruce Guenther/GSFC Code 673
   b. John Barker/GSFC Code 625
   c. Brian Markham/GSFC Code 623
   d. B. Johnson/GSFC Code 674

2. Dr. Philip Slater/U. of Ariz.

   Dr. Slater is interested in calibration of all the MODIS-N and T channels using in-flight sources, Earth calibration targets, the moon, pre-flight data, an astronaut transported calibration unit (ATCU), and any other means. Support staff for this purpose are:
   a. J. M. Palmer/U. of Ariz.
   b. R. D. Jackson/U. of Ariz.
   c. M. S. Moran/U. of Ariz.
   d. D. I. Gellman/U. of Ariz.
   e. B. M. Herman/U. of Ariz. field observations
   f. J. A. Reagan/U. of Ariz. field observations
   g. D. Ream/White Sands Missile Range liaison
   h. G. Vane/AVIRIS and Edwards AFB liaison
   i. W. Tibbits/AVIRIS and Edwards AFB liaison
   j. L. Tinney/EG&G aircraft scanners
   k. L. Balick/EG&G aircraft scanners

3. Dr. W. Paul Menzel/U. of Wisc.

   Dr. Menzel is interested in the calibration of the 15 thermal channels on MODIS-N. Support for this activity will be provided by Tim Schmit/U. of Wisc.

4. Dr. Otis Brown/U. of Miami

   Dr. Brown is interested in the calibration of channels 26, 27, 28, 30, 33, 34, and 35 of MODIS-N.

5. Dr. Robert Evans/U. of Miami

   Dr. Evans is interested in calibrating all channels on MODIS-T and the visible channels on MODIS-N using the diffuser plate and the moon as sources.

6. Dr. Yoram Kaufman/Science Systems and Applications, Inc.

   Dr. Kaufman is interested in maintaining calibration of the blue-green channels of MODIS-T/N using the sun glint as a calibration target, the visible channels using deserts as calibration targets, and using the ocean as a dark source such as done by Fraser and Kaufman.

7. Dr. John Parslow/CSIRO Div. of Fisheries

   Dr. Parslow is interested in the calibration of some of the MODIS-T channels using internal calibration sources and the moon.

GRID RESOLUTIONS OF PROPOSED LEVEL 3 DATA PRODUCTS BY MODIS TEAM MEMBERS

MODIS team members proposed many grid resolutions for their Level 3 data products. These resolutions can be divided into equal area grids and latitude-longitude grids. A large group of team members did not specify grid resolutions or stated that the resolution would be determined later. The three groups and their members are:

Group 1 (constant area grids):

1. 0.25 km: Justice, Muller
2. 0.50 km: Barton, Justice, Muller, Running
3. 1 km: Carder, Evans, Hoge, Huete, Justice, King, Menzel, Muller
4. 4 km: Evans, Justice, Susskind
5. 8 km: Justice
6. 10 km: Salomonson, Susskind
7. 15 km: Justice
8. 18 km: Brown, Evans
9. 20 km: Esaias
10. 50 km: Barton, Menzel
11. 100 km: Kaufman
12. 200 km: Strahler

Group 2 (latitude-longitude grids):

13. 0.25 deg.: Barton
14. 0.5 deg.: Barton, Kaufman
15. 1.0 deg.: Tanre
16. 2.5 deg.: King

Group 3 (team members who did not specify a grid or will determine additional grid resolutions later):

17. Abbott
18. Carder
19. Clark
20. Gordon
21. Justice
22. Muller
23. Parslow
24. Running
25. Strahler
26. Vanderbilt
27. Wan

GRID RESOLUTIONS OF PROPOSED LEVEL 3 DATA PRODUCTS
ORGANIZED BY DISCIPLINE

The team members and their proposed grids are listed by discipline and alphabetically within the discipline below:

OCEANS:

1.	Abbott	TBD
2.	Barton	0.5 and 50 km; 0.25 and 0.5 deg.
3.	Brown	18 km
4.	Carder	1 km
5.	Clark	N/A
6.	Esaias	20 km
7.	Evans/Gordon	1, 4, 18 km
9.	Hoge	1 km
10.	Parslow	TBD
11.	Tanre	1 degree

LAND:

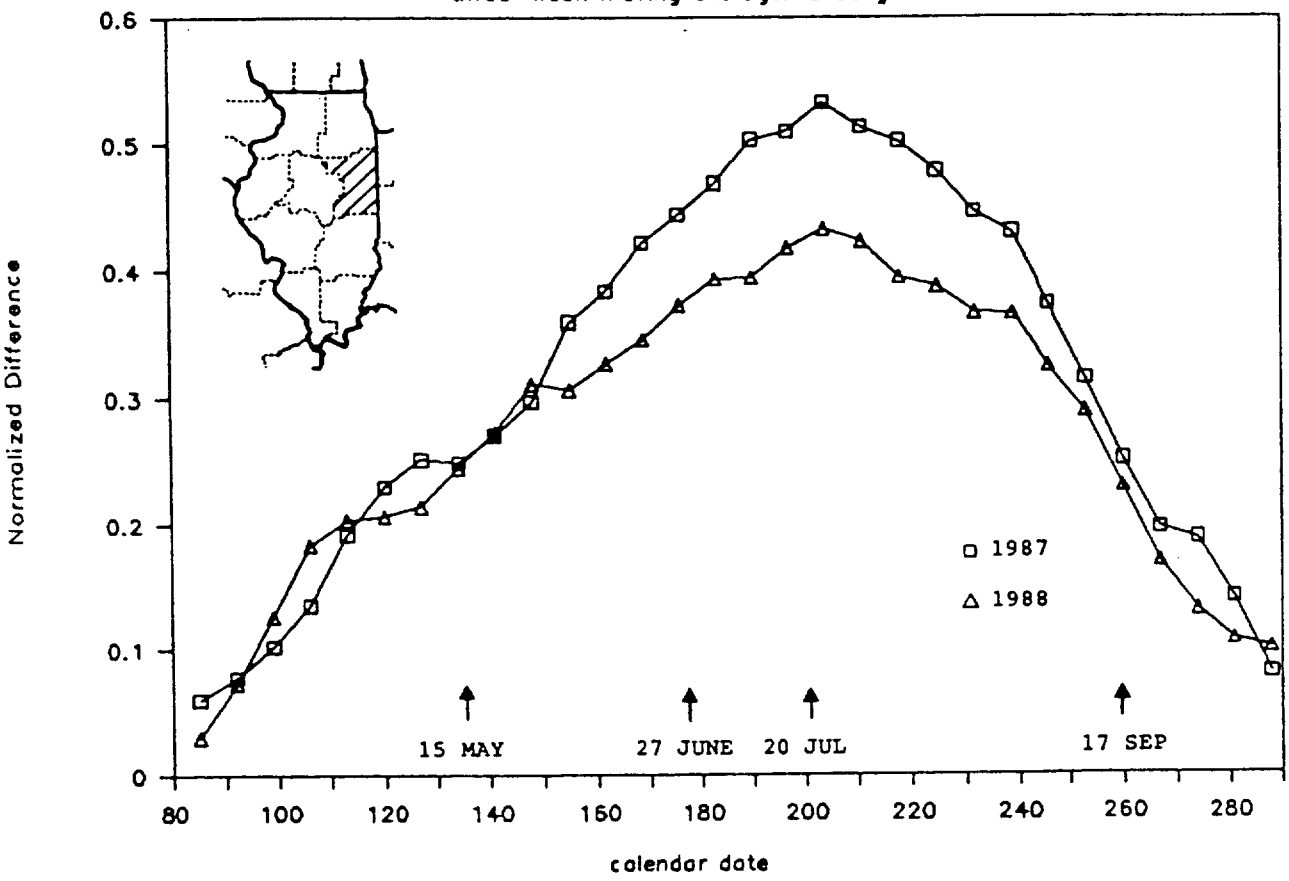
1.	Huete	1 km
2.	Justice	0.25, 0.5, 1, 4, 8, 15 km plus others TBD
3.	Kaufman	0.5 degree
4.	Muller	0.25, 0.5, 1 km plus others TBD
5.	Running	0.5 km; TBD
6.	Salomonson	10 km
7.	Tanre	1 degree
8.	Vanderbilt	TBD
9.	Wan	TBD

ATMOSPHERE:

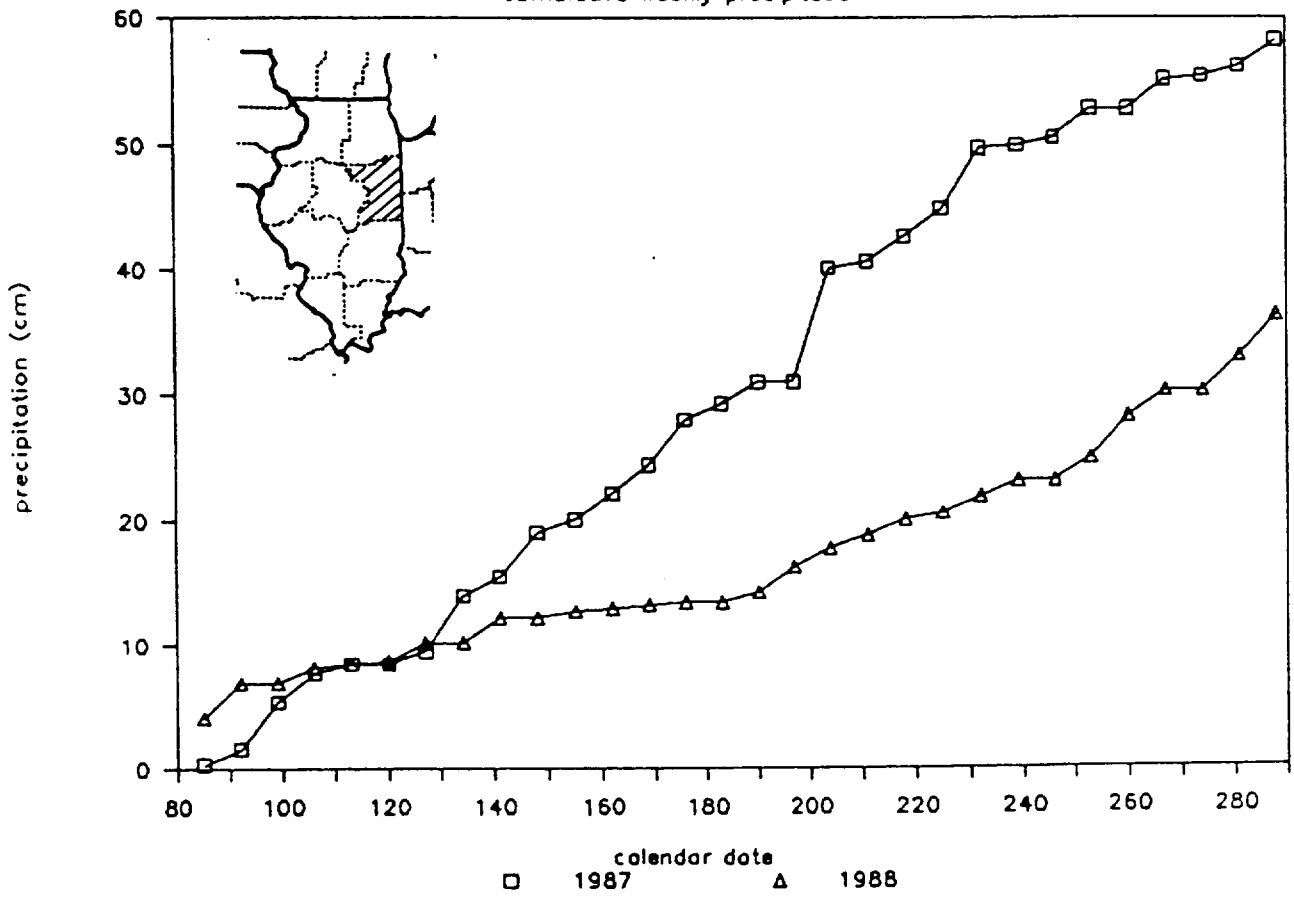
1.	Kaufman	0.5 degree
2.	King	1 km; 2.5 deg.
3.	Menzel	1, 50 km
4.	Salomonson	10 km
5.	Strahler	200 km, TBD
6.	Susskind	4, 10 km
7.	Tanre	1 degree

NOAA-9 AVHRR 1987 and 1988

three-week moving average: IL CD #5



cumulative weekly precipitation



MODIS TEAM MEMBER SCIENCE DATA PRODUCT SUMMARY

(Draft Outline for Comment)